

CoE 197 ME8 Exercise 1

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```
Command Prompt
Microsoft Windows [Version 10.0.19041.985]
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C:\Users\ysabedocker>images
REPOSITORY TAG IMAGE ID CREATED SIZE

C:\Users\ysabedocker>search ubuntu
NAME DESCRIPTION STARS OFFICIAL AUTOMATED
ubuntu Ubuntu is a Debian-based Linux operating sys... 12284 [OK]
dorowu/ubuntu-desktop-lxde-vnc Docker image to provide HTML5 VNC interface ... 533 [OK] [OK]
websphere-liberty WebSphere Liberty multi-architecture images ... 273 [OK]
rastasheep/ubuntu-ssh Dockerized SSH service, built on top of offi... 251 [OK]
consol/ubuntu-xfce-vnc Ubuntu container with "headless" VNC sessio... 240 [OK]
ubuntu-upstart Upstart is an event-based replacement for th... 110 [OK]
ansible/ubuntu14.04-ansible Ubuntu 14.04 LTS with ansible 98 [OK]
landinternet/ubuntu-16-nginx-php-phpmyadmin-mysql-5 ubuntu-16-nginx-php-phpmyadmin-mysql-5 50 [OK]
open-liberty Open Liberty multi-architecture images based... 45 [OK]
ubuntu-debootstrap debootstrap - variant-minbase -components-m... 44 [OK]
l386/ubuntu Ubuntu is a Debian-based Linux operating sys... 25
nuagebec/ubuntu Simple always updated Ubuntu docker images w... 24 [OK]
landinternet/ubuntu-16-apache-php-5.6 ubuntu-16-apache-php-5.6 14 [OK]
landinternet/ubuntu-16-apache-php-7.0 ubuntu-16-apache-php-7.0 13 [OK]
landinternet/ubuntu-16-nginx-php-phpmyadmin-mariadb-10 ubuntu-16-nginx-php-phpmyadmin-mariadb-10 11 [OK]
landinternet/ubuntu-16-nginx-php-5.6-wordpress-4 ubuntu-16-nginx-php-5.6-wordpress-4 9 [OK]
landinternet/ubuntu-16-apache-php-7.1 ubuntu-16-apache-php-7.1 7 [OK]
landinternet/ubuntu-16-nginx-php-7.0 ubuntu-16-nginx-php-7.0 4 [OK]
pivotaldata/ubuntu A quick freshening-up of the base Ubuntu doc... 4
pivotaldata/ubuntu16.04-build Ubuntu 16.04 image for GPOB compilation 2
landinternet/ubuntu-16-php-7.1 ubuntu-16-php-7.1 1 [OK]
landinternet/ubuntu-16-ssh ubuntu-16-ssh 1 [OK]
pivotaldata/ubuntu-gpdb-dev Ubuntu images for GPDB development 1
smartenry/ubuntu ubuntu with smartentry 1 [OK]
landinternet/ubuntu-16-rspec ubuntu-16-rspec 0 [OK]

C:\Users\ysabedocker>pull ubuntu:16.04
invalid reference format

C:\Users\ysabedocker>pull ubuntu:16.04
16.04: Pulling from library/ubuntu
80bce0046fa: Pull complete
55a738a15540: Pull complete
e19cf0706c62: Pull complete
de4cd6c27d1: Pull complete
Digest: sha256:98afb2808ee1ecfaa4d7c8f8b82c6347b9ae156932f7186182b997f3d5616ebe
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04

C:\Users\ysabedocker>
```

In this first image, steps 1 and 2 of exercise 1 were executed.

As indicated in the exercise, no images were seen upon running the command on the first step because of the fresh Docker installation.

```
Command Prompt
landinternet/ubuntu-16-php-7.1 ubuntu-16-php-7.1 1 [OK]
landinternet/ubuntu-16-ssh ubuntu-16-ssh 1 [OK]
pivotaldata/ubuntu-gpdb-dev Ubuntu images for GPDB development 1
smartenry/ubuntu ubuntu with smartentry 1 [OK]
landinternet/ubuntu-16-rspec ubuntu-16-rspec 0 [OK]

C:\Users\ysabedocker>pull ubuntu:16.04
invalid reference format

C:\Users\ysabedocker>pull ubuntu:16.04
16.04: Pulling from library/ubuntu
80bce0046fa: Pull complete
55a738a15540: Pull complete
e19cf0706c62: Pull complete
de4cd6c27d1: Pull complete
Digest: sha256:98afb2808ee1ecfaa4d7c8f8b82c6347b9ae156932f7186182b997f3d5616ebe
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04

C:\Users\ysabedocker>pull ubuntu:16.10
16.10: Pulling from library/ubuntu
4ca7be20e546: Pull complete
480a54f5960: Pull complete
614d4f23390e: Pull complete
499f80cd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:80c96520080c091400d7d50830490a3a0f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10

C:\Users\ysabedocker>images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu 16.04 9ff95a467e45 5 days ago 135MB
ubuntu 16.10 7d3f705d307c 3 years ago 107MB

C:\Users\ysabedocker>rm 7d3f705d307c
Untagged: ubuntu:16.10
Deleted: sha256:80c96520080c091400d7d50830490a3a0f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7225398e044a4f8512464eb8a6959a1b4514f4d618047c7
Deleted: sha256:d9db289b9342d9617596cdee3bba98829e24d9af5dbde4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2e0c903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b93d3524360dedc91d3e4d5d7f941dab0973c9
Deleted: sha256:6172d6624043026d8b017ec3a9572e37dd4f8a269a9109ebc359a7b167ef
Deleted: sha256:57145c01eb80040fd0a24cde20af4788605b49593188d47efab099af89a08e

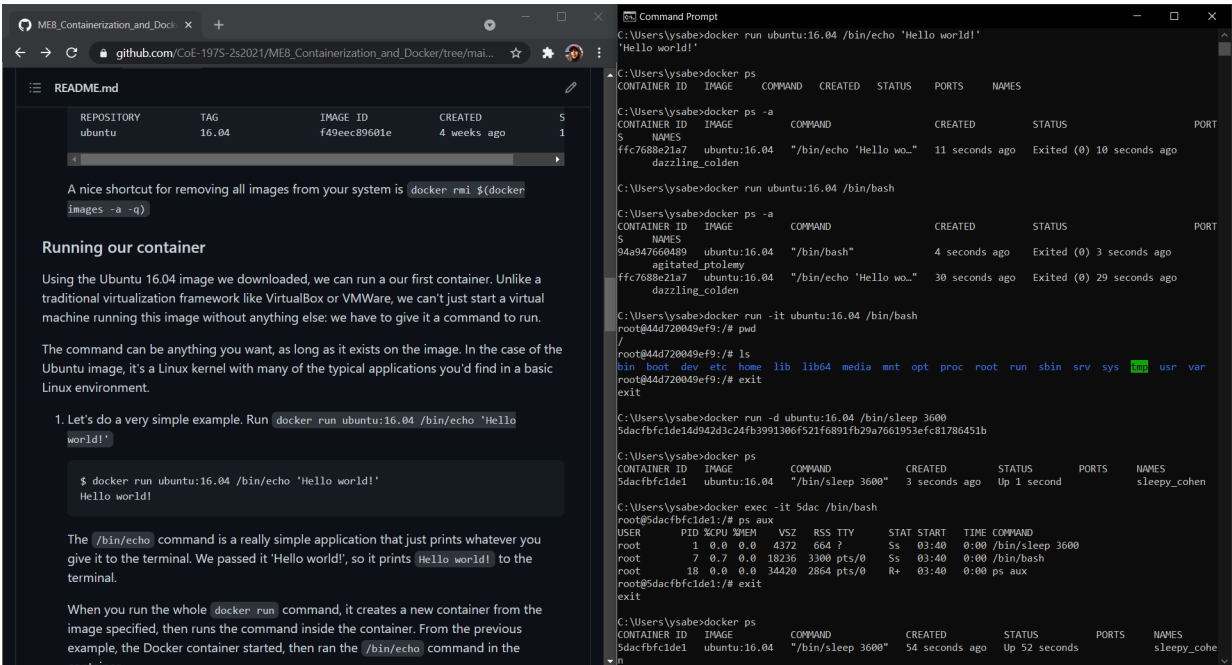
C:\Users\ysabedocker>images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu 16.04 9ff95a467e45 5 days ago 135MB

C:\Users\ysabedocker>
```

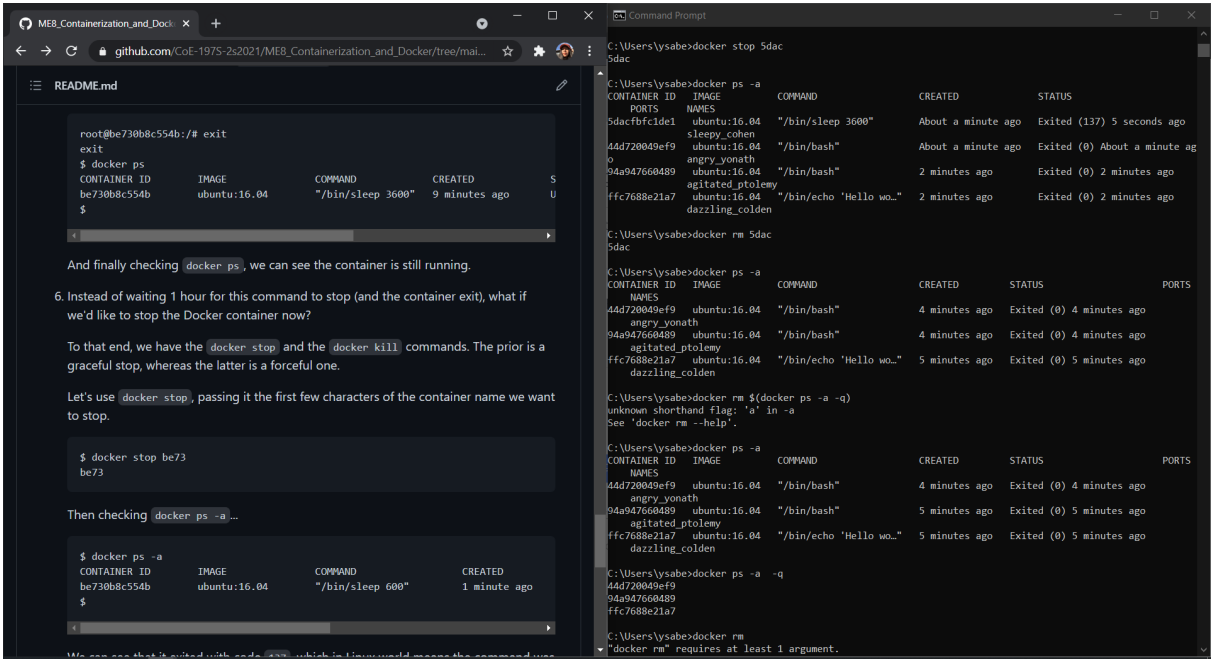
In this image, steps 3 and 4 were executed.

As you can see, 2 different versions of the Ubuntu image were pulled and both appeared when the ‘docker images’ command was run.

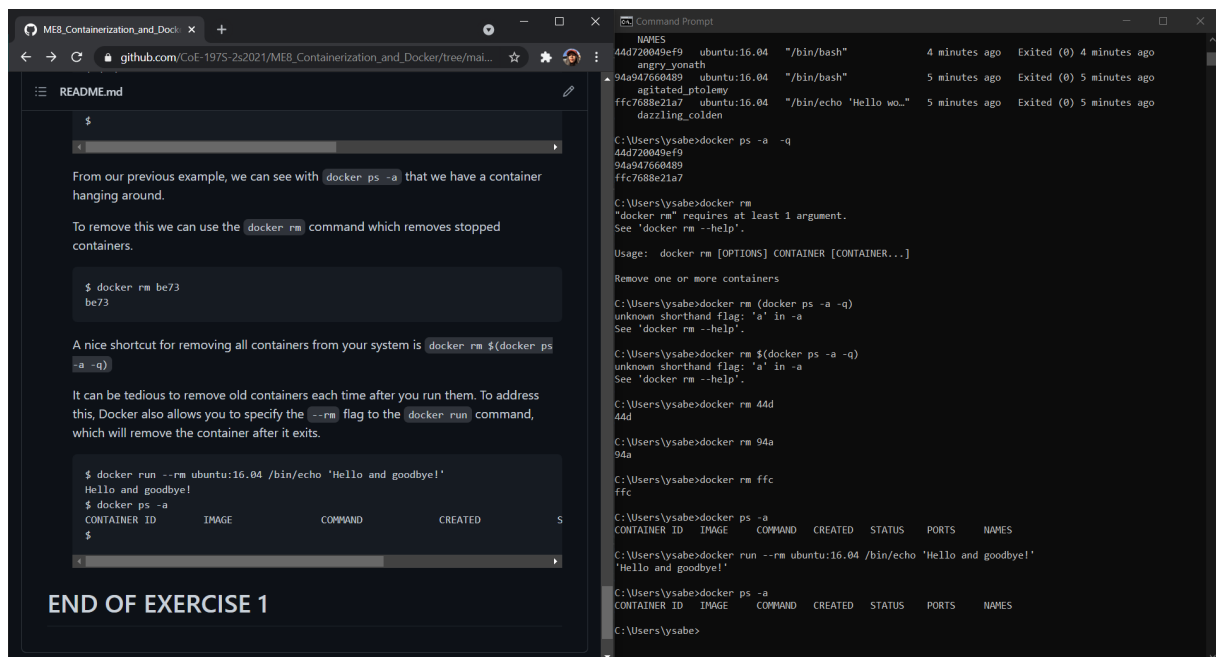
Since we won’t be using Ubuntu 16.10, the image was deleted using the ‘docker rmi’ command. As you can see, the delete operation was successful since Ubuntu 16.10 did not appear upon running the ‘docker images’ command once again.



In this image, steps 1-5 of the ‘Running our container’ part of the exercise was executed. All commands seem to be running successfully.



In this image, steps 6 and 7 were executed. However, I was not able to execute the shortcut for removing all containers so I had to remove them one by one, as shown in the next image.



The screenshot shows a GitHub README on the left and a Windows Command Prompt on the right. The README, titled 'ME8_Containerization_and_Docker', contains instructions for removing Docker containers. It shows the command `docker rm be73` and a shortcut `docker rm $(docker ps -a -q)`. The Command Prompt shows the execution of these commands. It lists the names of four containers: `44d720049ef9`, `angry_yonath`, `94a947660489`, and `agitated_ptolemy`. It then shows the command `docker rm` being used to remove each container individually. Finally, it shows the command `docker rm $(docker ps -a -q)` being used to remove all containers at once, which is successful.

```
NAME
44d720049ef9  ubuntu:16.04  "/bin/bash"      4 minutes ago  Exited (0) 4 minutes ago
angry_yonath  ubuntu:16.04  "/bin/bash"      5 minutes ago  Exited (0) 5 minutes ago
94a947660489  ubuntu:16.04  "/bin/bash"      5 minutes ago  Exited (0) 5 minutes ago
agitated_ptolemy
ffc7688e21a7  ubuntu:16.04  "/bin/echo 'Hello wo..." 5 minutes ago  Exited (0) 5 minutes ago
dazzling_colden

C:\Users\ysabe>docker ps -a -q
44d720049ef9
94a947660489
ffc7688e21a7

C:\Users\ysabe>docker rm
"docker rm" requires at least 1 argument.
See 'docker rm --help'.

Usage:  docker rm [OPTIONS] CONTAINER [CONTAINER...]

Remove one or more containers

C:\Users\ysabe>docker rm $(docker ps -a -q)
unknown shorthand flag: 'a' in -a
See 'docker rm --help'.

C:\Users\ysabe>docker rm $(docker ps -a -q)
unknown shorthand flag: 'a' in -a
See 'docker rm --help'.

C:\Users\ysabe>docker rm 44d
44d

C:\Users\ysabe>docker rm 94a
94a

C:\Users\ysabe>docker rm ffc
ffc

C:\Users\ysabe>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS   NAMES
C:\Users\ysabe>docker rm --rm ubuntu:16.04 /bin/echo 'Hello and goodbye!'
'Hello and goodbye!'

C:\Users\ysabe>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS   NAMES
C:\Users\ysabe>
```

In this final image, all containers were removed and the final command was also executed successfully.